

MeBr Soil Gas Conc. vs. Time
Broadcast and Drip Treatment at 12" Depth Adjusted for Film Permeability
 --◆-- Drip Center 12" Depth --■-- Tarped Broadcast Center 12" Depth

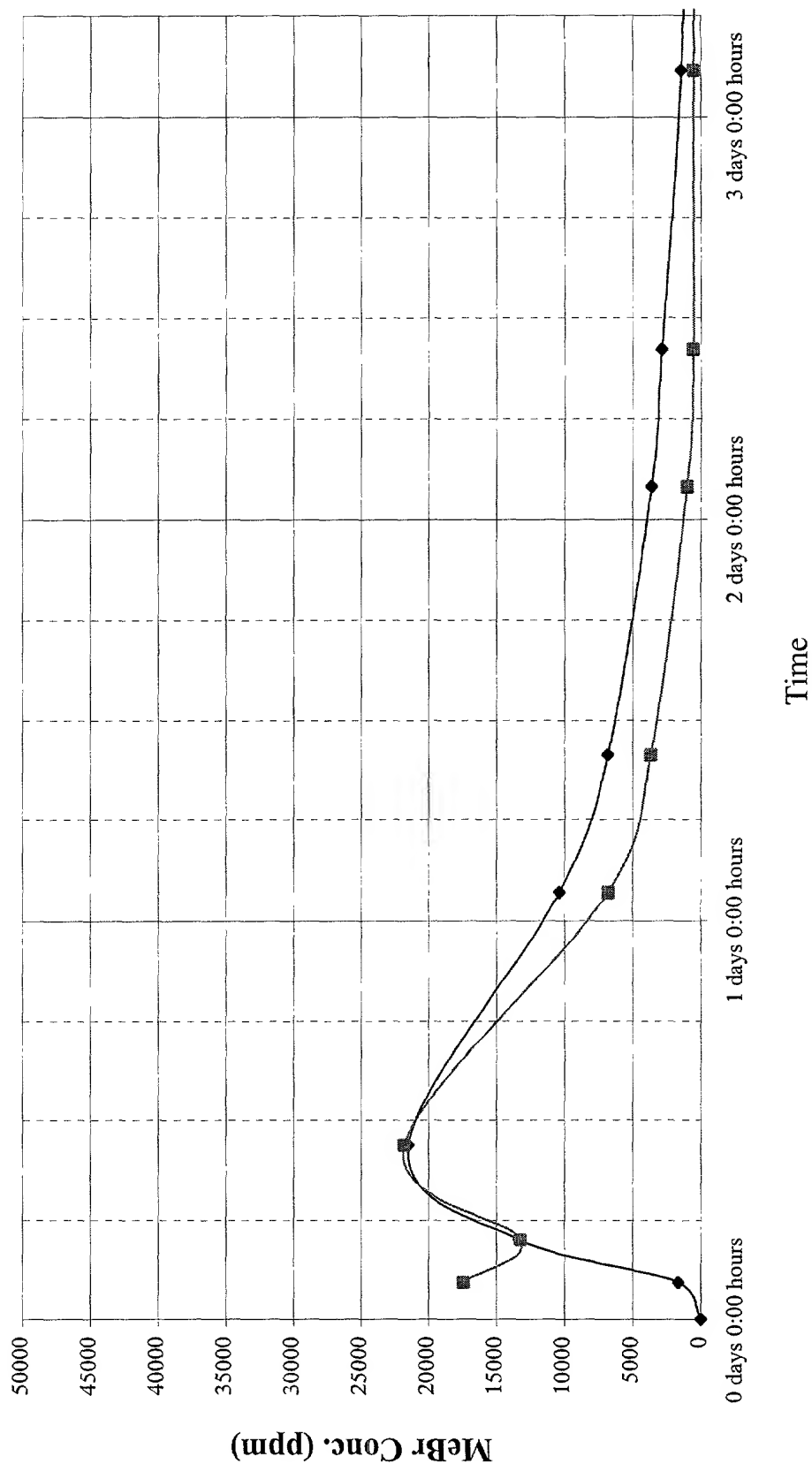


FIG. 1

MeBr Headspace Conc. vs. Time
Run #1 MeBr + ATLOX Surfactant + Water

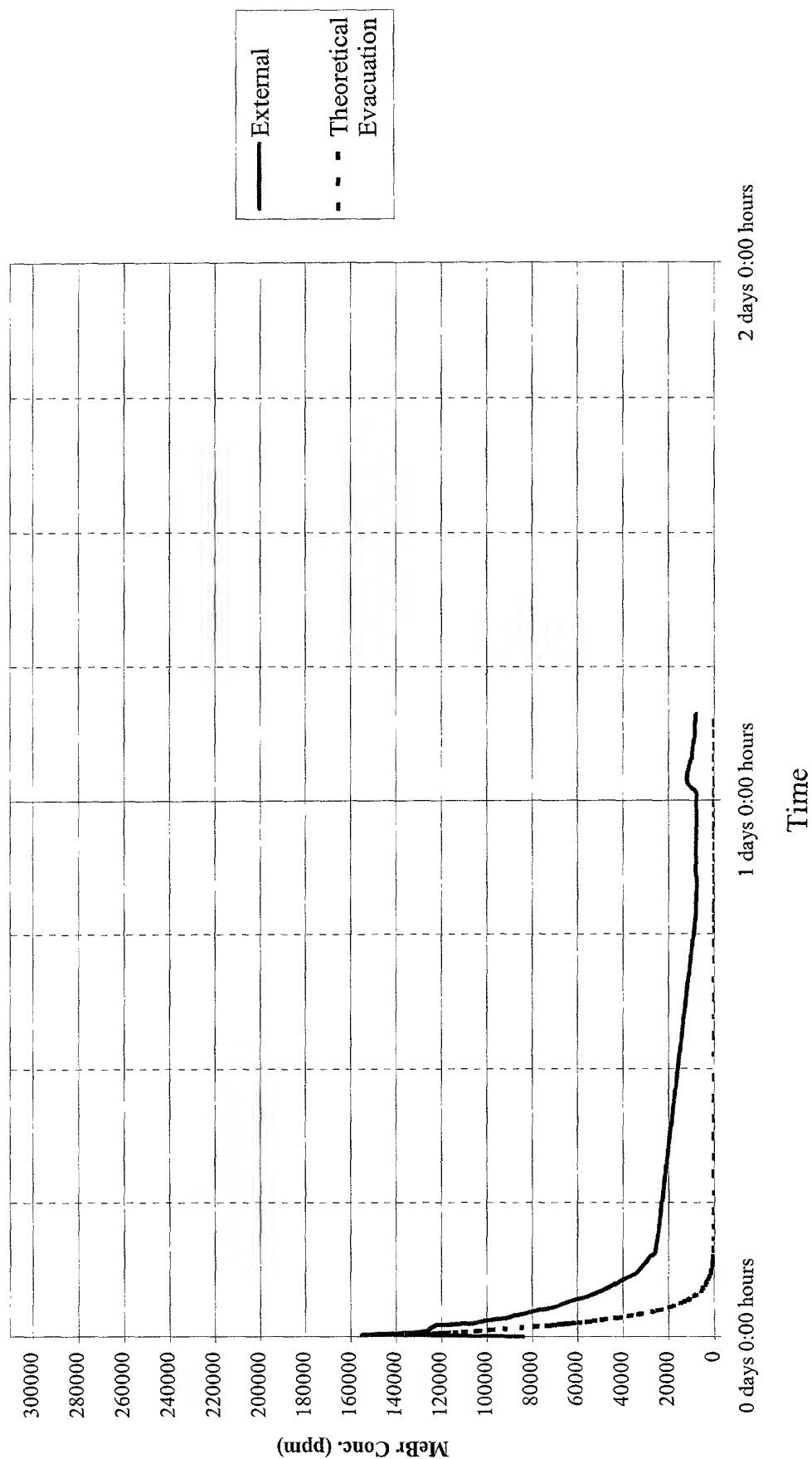


FIG. 2a

10-03-17 11:03 AM

MeBr Headspace Conc. vs. Time

Run #2 MeBr + Water

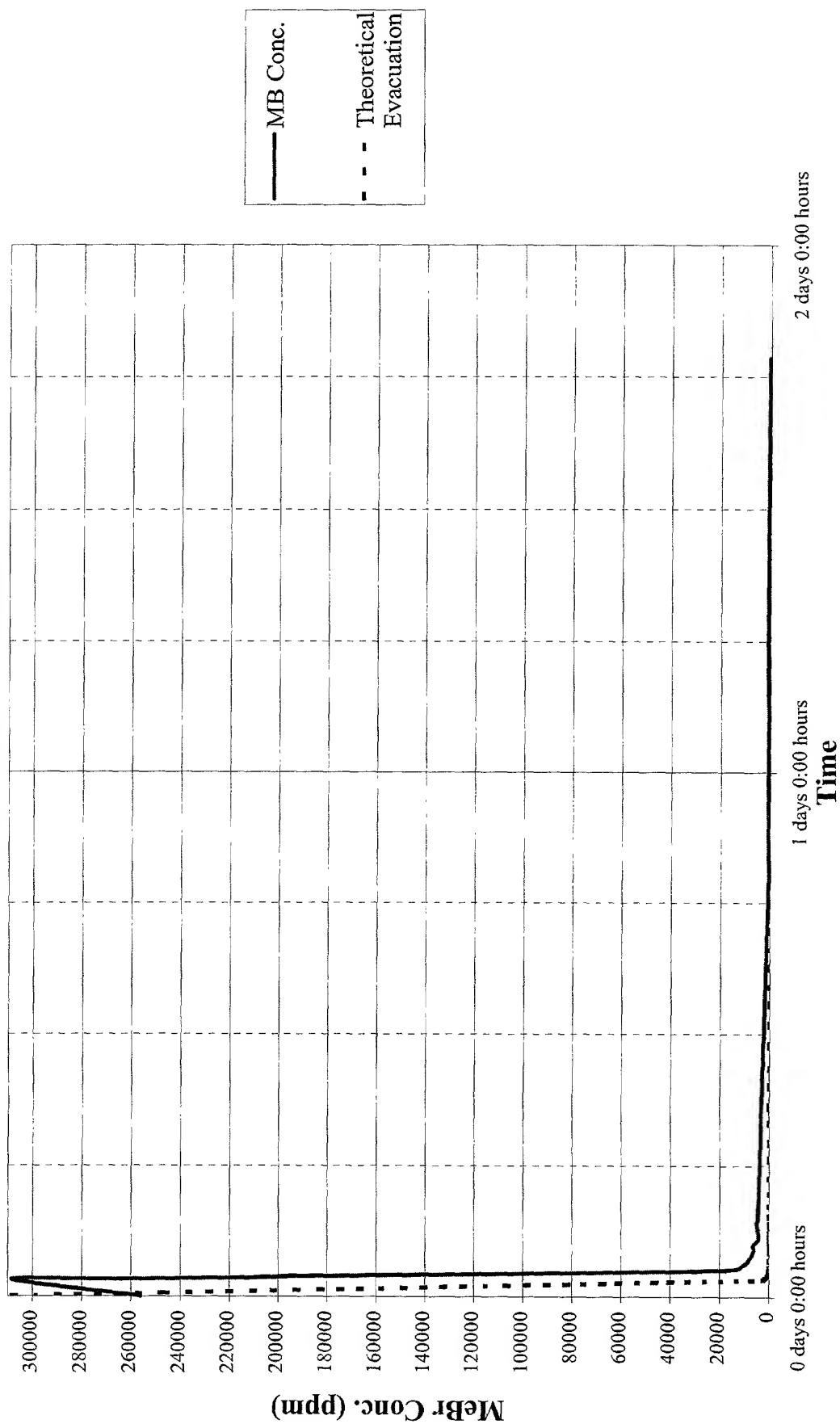
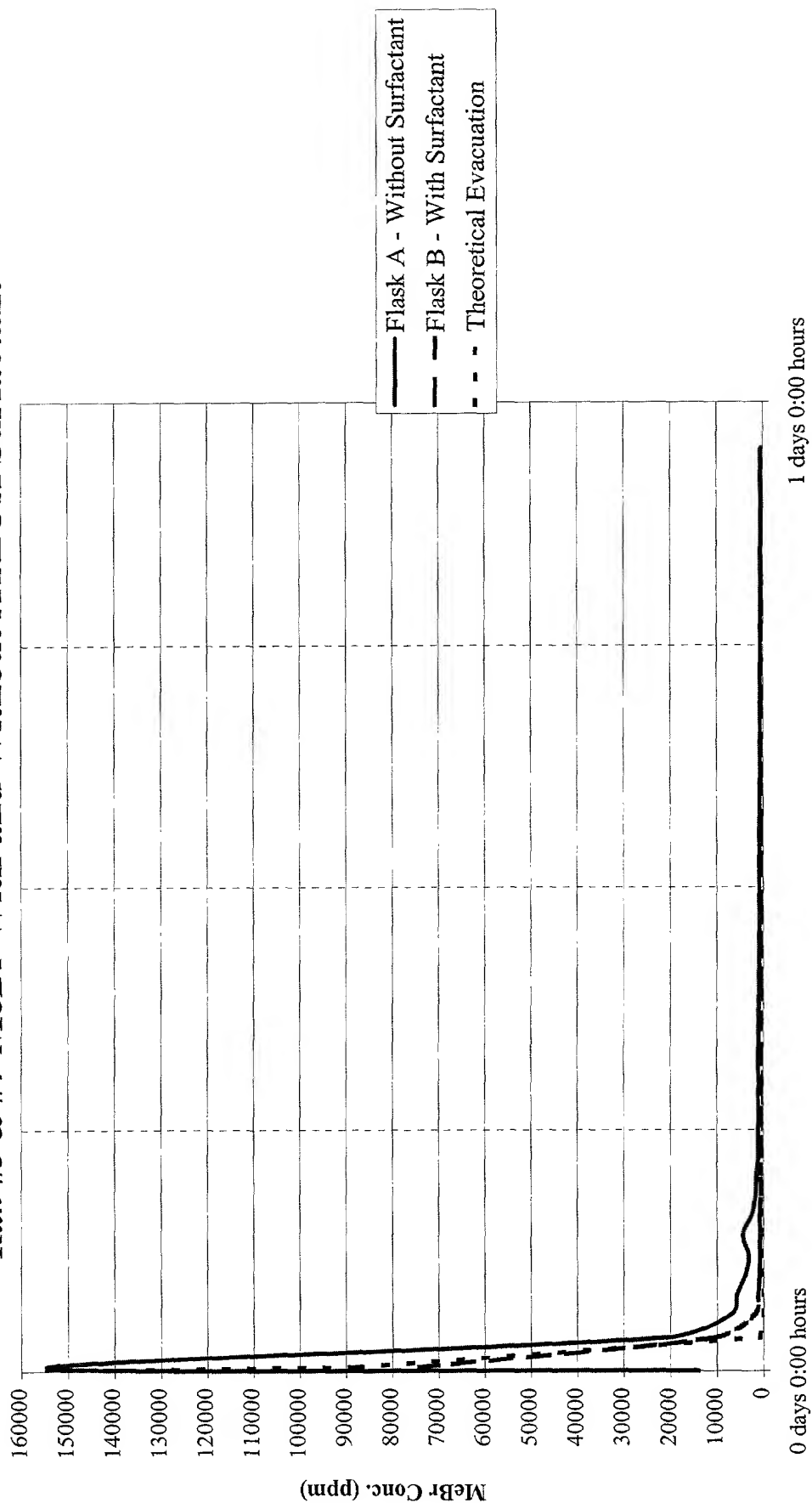


FIG. 2b

MeBr Headspace Conc. vs. Time
Run #3 & #4 MeBr With and Without ATLOX Surfactant



Time

FLASK A had 2 mL of MeBr added, FLASK B had 0.5 mL added.

FIG. 2c

**Treatment of Different Types of Tubing
with Chloropicrin Formulation**

Tubing Type	Immediate Rx	Wall Thickness After 15 Hours	Elasticity/Strength After 15 Hours	General Appearance Integrity After 15 Hours
Black Seamless Latex	None	No change	Maintained	No effect
FEP Teflon	None	No change	Maintained	No effect
Nalgene 860 Tissue Culture Grade	None	No change	Maintained	Sticky
Manosilt	None	No change	Maintained	No effect
Tygon R3603	None	Reduced thickness	Reduced slightly	Appeared melted
Nalgene 180 Premium PVC	None	Reduced thickness	Reduced slightly	Slightly opaque, appeared melted

FIG. 3

T09T10 22932480
 Nematode Efficacy - Chloropicrin Drip Application
 of Various EC Percentages
 Summary of Results

Nematode Species ^a									
Cylinder #	Root Knot (Meloïdogyne)	Dagger (Xiphinema)	Citrus	Pin	Root Knot (Meloïdogyne)	Dagger (Xiphinema) a)	Citrus	Pin	
Counts					Adjusted Counts §				
1	5	3	168		15	9	504	0	
2	22	4	216	28	66	12	648	84	
3	1	2	456		3	6	1368	0	
4	49		338	9	147	0	1014	27	
5	0		7		0	0	21	0	
6	23		40	4	69	0	120	12	
7	112		80	14	336	0	240	42	
8	29		79		87	0	237	0	
9	0		114		0	0	342	0	
10	16		72		48	0	216	0	
11	22		160		66	0	480	0	
12	29		87		87	0	261	0	
13	115		136		345	0	408	0	
14	16		30		48	0	90	0	
15	22		31		66	0	93	0	
16	79		82		237	0	246	0	
17	15		17		45	0	51	0	
18	30		81		90	0	243	0	
19	69		109		207	0	327	0	
20	26		68		78	0	204	0	

§ 33% extraction efficiency, measured values multiplied by 3
 a No counts were obtained for Ring nematode statistical analysis.

FIG. 4

Chloropicrin EC - Lab Tests for Weed Seed Mortality

PIGWEEED

Weed Seed: *Amaranthus retroflexus*

Treatment Date = 10/28/1999 Number of Seeds/Dish = 100

(% Mortality)

Seed Germination Counts

Treatment		Date of Count = 11/05/1999 Elapsed Time from Treatment = 8 Days				Date of Count = 11/09/1999 Elapsed Time from Treatment = 12 Days				1st Count at 8 Days				2nd Count				2nd Count at 12 Days		% Mortality Above Control
		1st Count				2nd Count				1st Count				2nd Count				2nd Count		
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Mean	
Seed Age	Treatment Solution	26	29	15	20	75	66	55	75	74%	71%	85%	80%	25%	34%	45%	25%	32%	0%	
NEW SEED	Control 0 ppm, 0% Emulsifier	13	9	10	14	15	16	21	32	87%	91%	90%	86%	85%	84%	79%	68%	79%	47%	
NEW SEED	0 ppm, 5% Emulsifier	6	2	12	4	10	4	19	6	94%	98%	88%	96%	90%	96%	81%	94%	90%	58%	
NEW SEED	0 ppm, 50% Emulsifier	0	3	1	4	0	3	1	4	100%	97%	99%	96%	100%	97%	99%	96%	98%	66%	
NEW SEED	500 ppm, 5% Emulsifier	0	2	0	2	3	6	3	7	7%	98%	100%	98%	97%	94%	97%	93%	95%	63%	
NEW SEED	500 ppm, 50% Emulsifier	4	1	1	0	9	2	1	1	96%	99%	99%	100%	91%	98%	99%	99%	97%	65%	
NEW SEED	1000 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	68%	
NEW SEED	1000 ppm, 50% Emulsifier																			
OLD SEED	Control 0 ppm, 0% Emulsifier																			
OLD SEED	0 ppm, 5% Emulsifier																			
OLD SEED	0 ppm, 50% Emulsifier																			
OLD SEED	500 ppm, 5% Emulsifier																			
OLD SEED	500 ppm, 50% Emulsifier																			
OLD SEED	1000 ppm, 5% Emulsifier																			
OLD SEED	1000 ppm, 50% Emulsifier																			

NEW SEED

Anova Single Factor

HIGHLY SIGNIFICANT DIFFERENCE @ 99%

SUMMARY	Groups	Count	Sum	Average	Variance
Row 1		4	128	0.3225	0.009025
Row 2		4	316	0.79	0.0060667
Row 3		4	361	0.9025	0.004425
Row 4		4	392	0.98	0.0033333
Row 5		4	381	0.9525	0.004425
Row 6		4	387	0.9675	0.0049167
Row 7		4	4	1	0

ANOVA	SS	df	MS	F	P-value	F crit
Source of Variation	1.3926	6	0.2321	74.6416539	4.547E-13	5.8807927
Between Groups	0.0653	21	0.0031095			
Within Groups						
Total	1.4579	27				

FIG. 5a

% Mortality of New Weed Seeds Over Control Pigweed

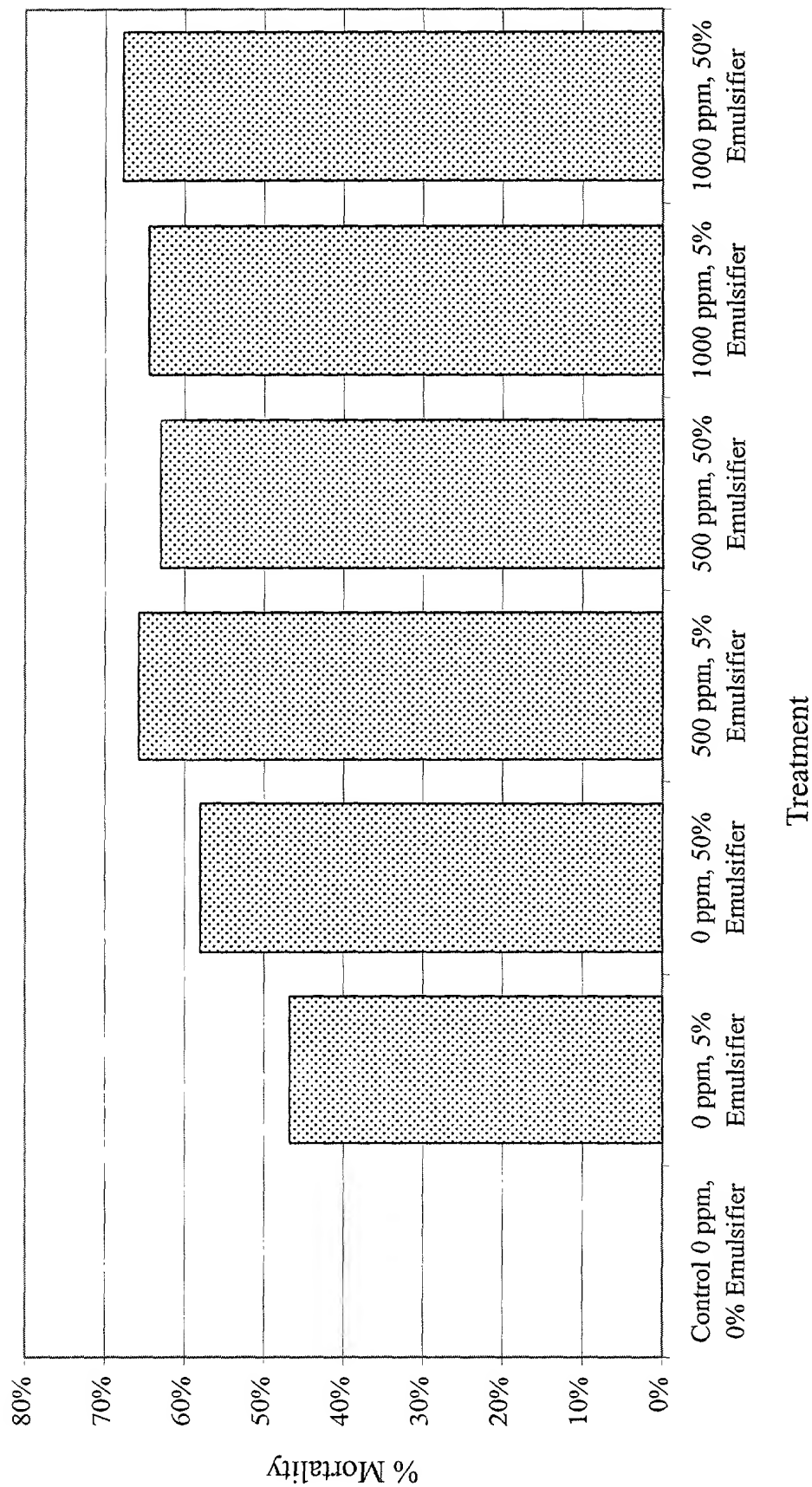


FIG. 5b

Chloropicrin EC - Lab Tests for Weed Seed Mortality
WHITE SWEET
CLOVER

Weed Seed: <i>Melilotus alba</i>		Treatment Date = 10/28/1999		Number of Seeds/Dish = 100		Seed Germination Counts												(% Mortality)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Date of Count = 11/05/1999				Date of Count = 11/09/1999				Elapsed Time from Treatment = 8 Days				Elapsed Time from Treatment = 12 Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

NEW SEED

Anova: Single Factor

SUMMARY				
Groups	Count	Sum	Average	Variance
Row 1	4	3.64	0.91	0.00248667
Row 2	4	3.71	0.9275	0.00095633
Row 3	4	3.78	0.945	0.00016667
Row 4	4	3.84	0.96	0.00033333
Row 5	4	3.85	0.9625	0.00075633
Row 6	4	3.92	0.98	0.00033333
Row 7	4	3.81	0.9525	0.00349167

OLD SEED

Anova: Single Factor

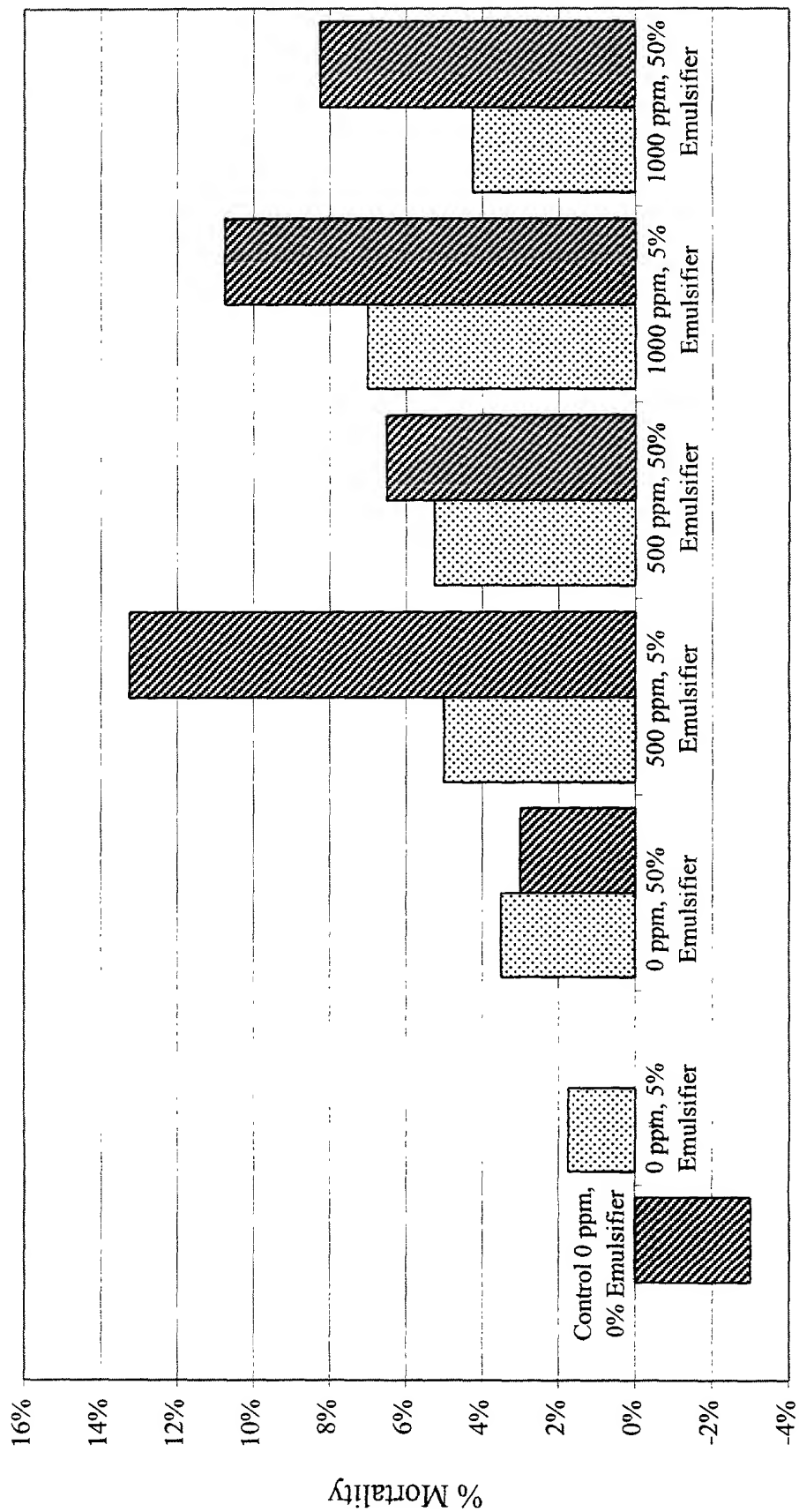
SUMMARY				
Groups	Count	Sum	Average	Variance
Row 1	4	3.07	0.7675	0.007091667
Row 2	4	3.19	0.7975	0.022625
Row 3	4	3.31	0.8275	0.006925
Row 4	4	3.72	0.93	0.0026
Row 5	4	3.45	0.8625	0.007025
Row 6	4	3.62	0.905	0.0107
Row 7	4	3.52	0.88	0.014666667

ANOVA					
Source of Variation	SS	df	MS	F	P-value
Between Groups	0.0130657	6	0.002181	1.78431929	0.1469003
Within Groups	0.025525	21	0.0012155		
Total	0.0386107	27			

ANOVA					
Source of Variation	SS	df	MS	F	P-value
Between Groups	0.081971	6	0.013662	1.279961017	0.30875
Within Groups	0.2242	21	0.010676		
Total	0.306171	27			

FIG. 6a

% Mortality of New Weed Seeds Over Control White Sweet Clover



Treatment
FIG. 6b

Chloropicrin EC - Lab Tests for Weed Seed Mortality WILD MUSTARD

Weed Seed: *Brassica kaber*

Treatment Date = 10/28/1999 Number of Seeds/Dish = 100

Seed Age		Seed Germination Counts												1st Count at 8 Days				2nd Count at 12 Days				% Mortality Above Control			
		Date of Count = 11/05/1999 Elapsed Time from Treatment = 8 Days				Date of Count = 11/09/1999 Elapsed Time from Treatment = 12 Days																			
		1st Count				2nd Count				1st Count				2nd Count											
Treatment	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Mean	Rep 1	Rep 2	Rep 3	Rep 4	Mean		
NEW SEED	Control 0 ppm, 0% Emulsifier	35	38	40	33	60	51	49	54	65%	62%	60%	67%	64%	49%	51%	46%	64%	69%	40%	49%	51%	46%	47%	
NEW SEED	0 ppm, 5% Emulsifier	34	29	32	28	80	78	75	79	66%	71%	68%	72%	69%	22%	25%	21%	64%	69%	20%	22%	25%	21%	22%	
NEW SEED	0 ppm, 50% Emulsifier	28	31	29	32	81	77	70	82	72%	69%	71%	68%	70%	23%	30%	18%	70%	70%	19%	23%	30%	18%	23%	
NEW SEED	500 ppm, 5% Emulsifier	34	16	35	36	82	72	91	88	66%	84%	65%	64%	70%	28%	9%	12%	70%	70%	18%	28%	9%	12%	17%	
NEW SEED	500 ppm, 50% Emulsifier	40	26	10	24	83	76	80	85	60%	74%	90%	76%	75%	20%	20%	15%	75%	75%	17%	24%	20%	15%	19%	
NEW SEED	1000 ppm, 5% Emulsifier	30	31	18	22	81	80	70	76	70%	69%	82%	78%	75%	87%	88%	24%	75%	75%	19%	20%	30%	24%	23%	
NEW SEED	1000 ppm, 50% Emulsifier	31	11	3	41	36	13	12	41	69%	89%	97%	59%	79%	87%	88%	59%	79%	64%	64%	87%	88%	59%	75%	
		Date of Count = 11/08/1999																							
		Elapsed Time from Treatment = 11 Days																							
OLD SEED	Control 0 ppm, 0% Emulsifier	0	1	0	1	0	1	0	1	100%	99%	100%	99%	100%	100%	99%	100%	100%	100%	100%	99%	100%	99%	100%	
OLD SEED	0 ppm, 5% Emulsifier	2	2	0	1	2	2	0	1	98%	98%	100%	99%	99%	98%	100%	99%	99%	99%	98%	98%	100%	99%	99%	
OLD SEED	0 ppm, 50% Emulsifier	1	0	0	1	1	0	0	1	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%	99%	100%	
OLD SEED	500 ppm, 5% Emulsifier	2	0	0	0	2	0	0	0	98%	100%	100%	100%	100%	100%	100%	100%	100%	98%	100%	100%	100%	100%	100%	
OLD SEED	500 ppm, 50% Emulsifier	3	2	3	0	3	2	3	0	97%	98%	97%	100%	98%	97%	97%	100%	98%	97%	97%	98%	97%	100%	98%	
OLD SEED	1000 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
OLD SEED	1000 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	

NEW SEED

Anova Single Factor

SIGNIFICANT DIFFERENCE @ 99%

SUMMARY	Groups	Count	Sum	Average	Variance
Row 1	4	186	0.465	0.0023	
Row 2	4	0.88	0.22	0.000466667	
Row 3	4	0.9	0.225	0.002966667	
Row 4	4	0.67	0.1675	0.007025	
Row 5	4	0.76	0.19	0.001533333	
Row 6	4	0.93	0.2325	0.002491667	
Row 7	4	2.98	0.745	0.022966667	

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1.0739357	6	0.1789933	31.52012579	1.868E-09	3.8117491	
Within Groups	0.11925	21	0.0056786				
Total	1.1931857	27					

OLD SEED

Anova Single Factor

SIGNIFICANT DIFFERENCE @ 95%

SUMMARY	Groups	Count	Sum	Average	Variance
Row 1	4	3.98	0.995	3.3333E-05	
Row 2	4	3.95	0.9875	9.16667E-05	
Row 3	4	3.98	0.995	3.3333E-05	
Row 4	4	3.96	0.99	1E-04	
Row 5	4	3.92	0.98	0.0002	
Row 6	4	4	1	0	
Row 7	4	4	1	0	

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.001236	6	0.000206	3.145454545	0.023236	2.572712	
Within Groups	0.001375	21	6.35E-05				
Total	0.002611	27					

FIG. 7a

% Mortality of New Weed Seeds Over Control Wild Mustard

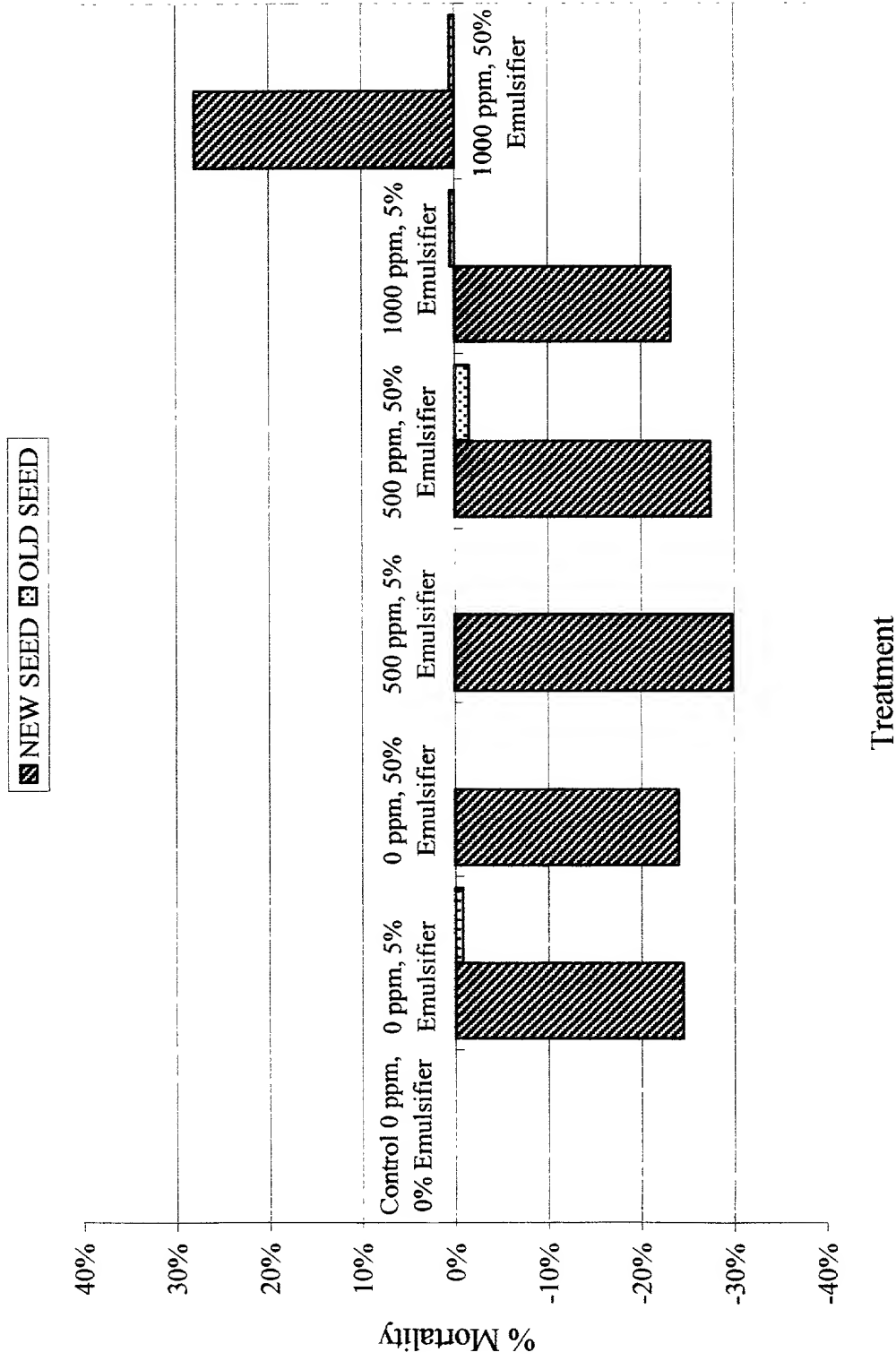


FIG. 7b

[illegible]

Number of Seeds/Dish = 100

No Significance

No Significance

SUMMARY					
	Groups	Count	Sum	Average	Variance
Row 1		4	4	1	0
Row 2		4	4	1	0
Row 3		4	4	1	0
Row 4		4	3.95	0.9875	0.000625
Row 5		4	3.98	0.995	1E-04
Row 6		4	3.87	0.9825	8.16607E-05
Row 7		4	4	1	0

ANOVA						
Source of Variation	SS	df	MS	F	P-value	Fcrit
Between Groups	0.0005628	0	9.801E-05	0.840838776	0.5404524	2.5727118
Within Groups	0.00245	21	0.0001167			
Total	0.0030428	27				

FIG. 8a

% Mortality of New Weed Seeds Over Control Yellow Nutgrass

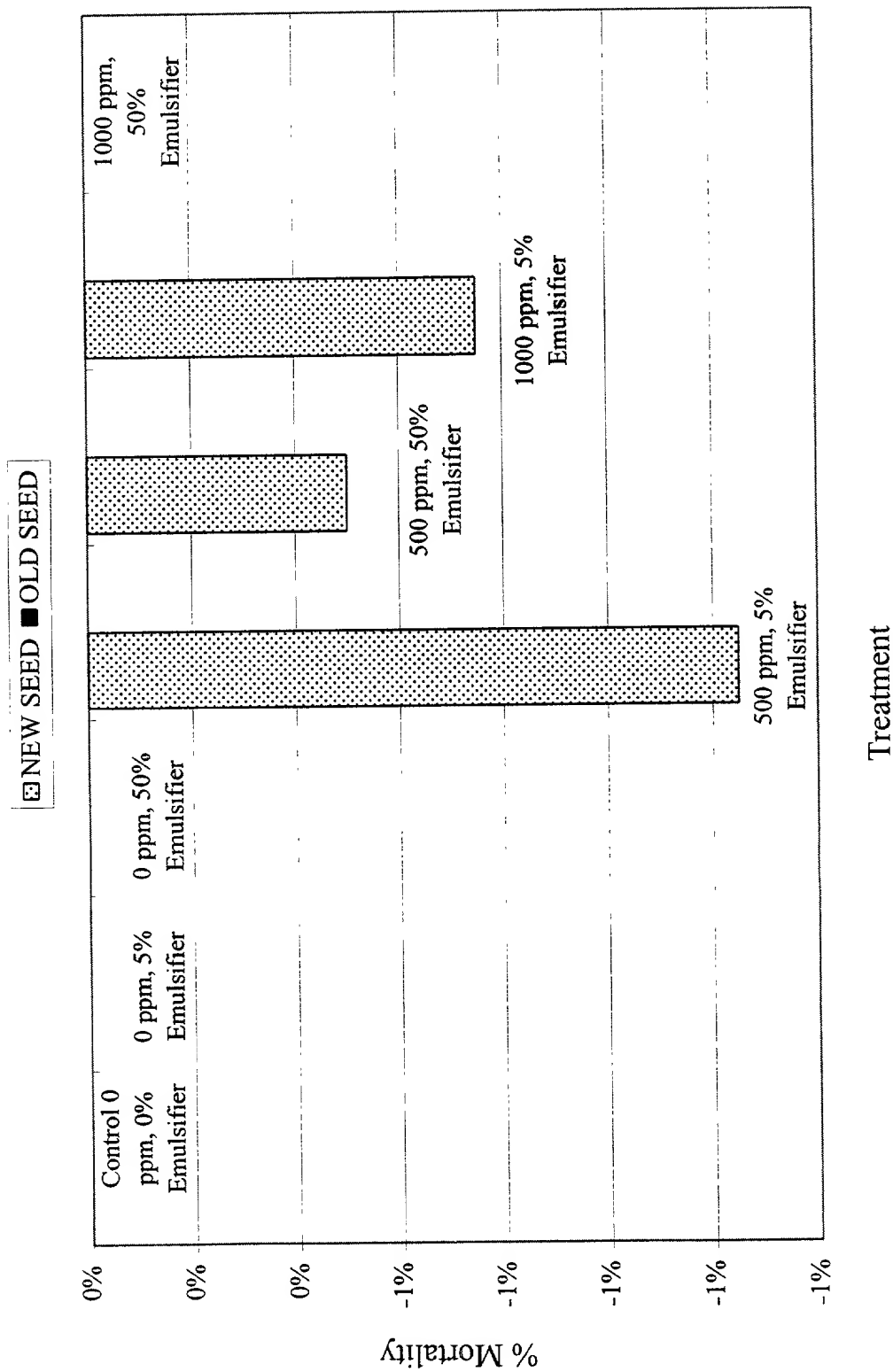
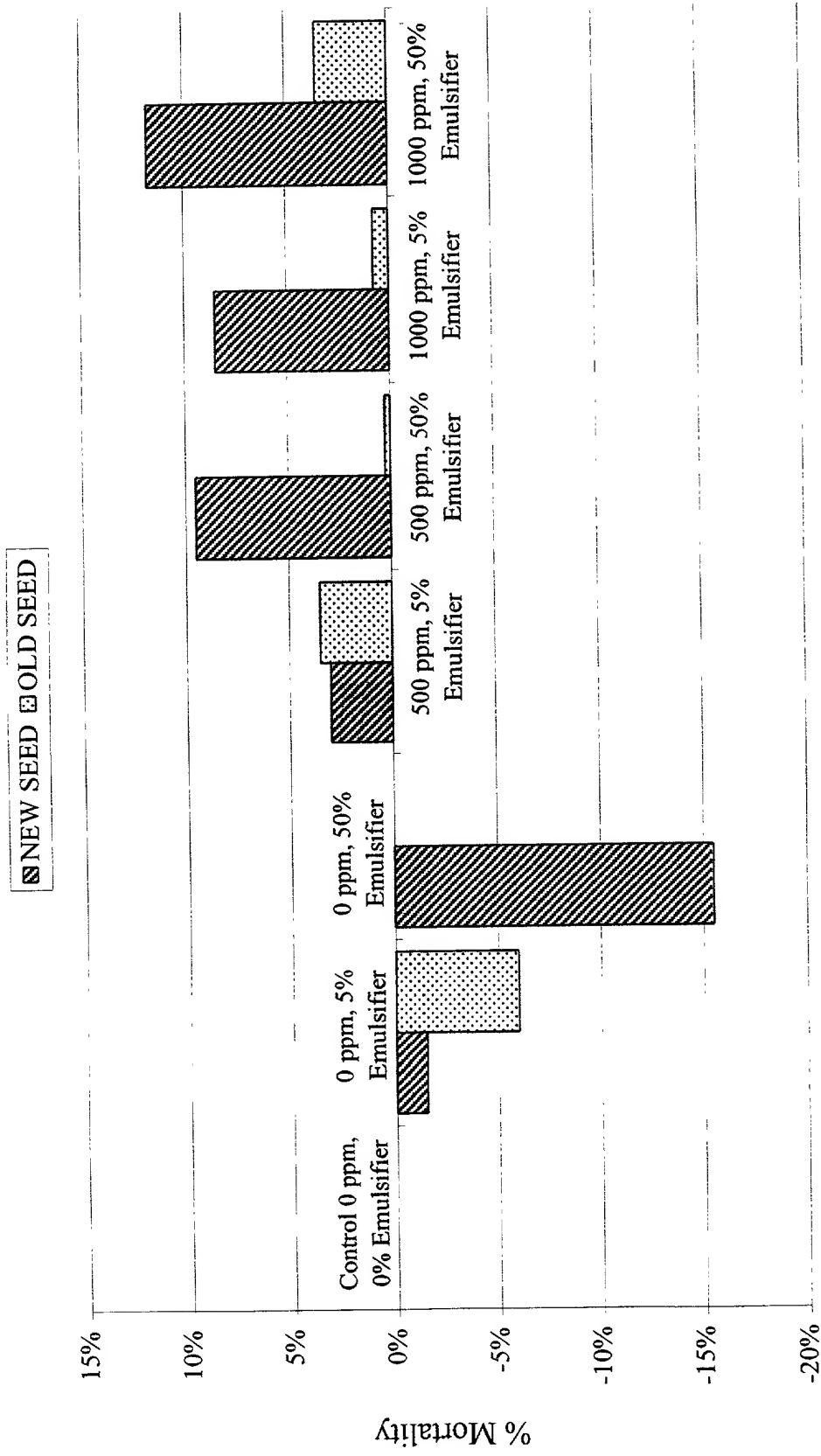


FIG. 8b

% Mortality of New Weed Seeds Over Control Yellow Sweet Clover



Treatment

FIG. 9b

Chloropicrin EC - Lab Tests for Weed Seed Mortality BARNYARD GRASS

Weed Seed: *Echinochloa crusgalli*

Treatment Date = 10/28/1999

Number of Seeds/Dish = 100

Seed Germination Counts

Date of Count = 11/05/1999
Elapsed Time from Treatment = 8 Days

Date of Count = 11/09/1999
Elapsed Time from Treatment = 12 Days

(% Mortality)

Weed Seed: Echinochloa crusgalli		Seed Germination Counts				(% Mortality)												% Mortality Above Control	
		Treatment Date = 10/28/1999				Date of Count = 11/05/1999				Date of Count = 11/09/1999									
		Elapsed Time from Treatment = 8 Days				Elapsed Time from Treatment = 12 Days													
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					
		Seed Germination Counts				Seed Germination Counts				Seed Germination Counts				Seed Germination Counts					

NEW SEED

Anova Single Factor

SIGNIFICANT DIFFERENCE @ 99%

Groups	Count	Sum	Average	Variance
Row 1	4	0.24	0.06	0.0072
Row 2	4	0.2	0.05	0.01
Row 3	4	0.94	0.235	0.1687
Row 4	4	0.25	0.0625	0.003225
Row 5	4	1.93	0.4825	0.13075625
Row 6	4	0.86	0.215	0.100667
Row 7	4	2.7	0.675	0.1201667

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups		1.3890357	6	0.231506	2.9666828	0.0281763	2.5727118
Within Groups		1.62125	21	0.0772024			
Total		3.0102857	27				

OLD SEED

Anova Single Factor

No Significance

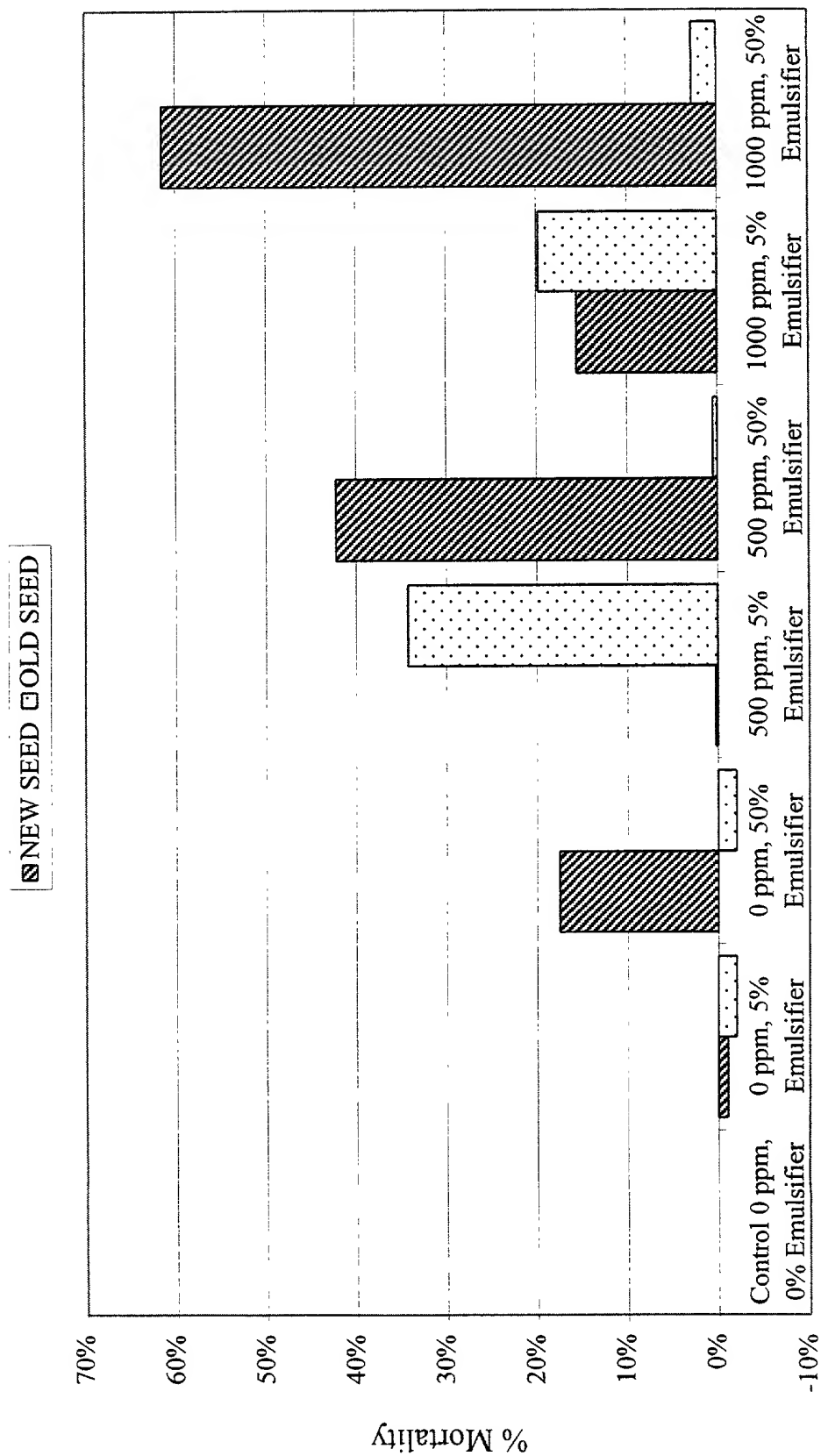
Groups	Count	Sum	Average	Variance
Row 1	4	0.08	0.02	0.0006
Row 2	4	0	0	0
Row 3	4	0	0	0
Row 4	4	1.45	0.3625	0.140225
Row 5	4	0.1	0.025	0.00083333
Row 6	4	0.87	0.2175	0.117225
Row 7	4	0.19	0.0475	0.00651667

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups		0.469543	6	0.078257	2.110372725	0.085145	2.572712
Within Groups		0.778725	21	0.037082			
Total		1.248268	27				

FIG. 10a

% Mortality of New Weed Seeds Over Control

Barnyard Grass



Chloropicrin EC - Lab Tests for Weed Seed Mortality

BINDWEED

Weed Seed: *Convolvulus arvensis*

Treatment Date = 10/28/1999 Number of Seeds/Dish = 100

Seed Germination Counts		(% Mortality)																		
Seed Age	Treatment	Date of Count = 11/05/1999				Date of Count = 11/09/1999				Date of Count = 11/09/1999				Date of Count = 11/09/1999				% Mortality Above Control		
		Elapsed Time from Treatment = 8 Days				Elapsed Time from Treatment = 12 Days				Elapsed Time from Treatment = 12 Days				Elapsed Time from Treatment = 12 Days						
		1st Count				2nd Count				1st Count				2nd Count						
Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Mean
NEW SEED	Control 0 ppm, 0% Emulsifier	15	20	23	28	80	84	83	78	85%	84%	80%	72%	79%	71%	73%	82%	19%	0%	
NEW SEED	0 ppm, 5% Emulsifier	16	22	23	14	29	29	27	18	84%	78%	77%	86%	81%	71%	73%	82%	74%	56%	
NEW SEED	0 ppm, 50% Emulsifier	19	15	15	16	51	63	55	65	81%	85%	85%	84%	84%	49%	45%	35%	42%	23%	
NEW SEED	500 ppm, 5% Emulsifier	12	16	14	7	54	63	55	65	88%	84%	86%	93%	88%	46%	37%	45%	41%	22%	
NEW SEED	500 ppm, 50% Emulsifier	25	13	22	17	62	13	74	56	75%	87%	78%	83%	81%	38%	87%	26%	44%	30%	
NEW SEED	1000 ppm, 5% Emulsifier	8	15	5	12	14	20	10	16	92%	85%	95%	88%	90%	86%	80%	90%	84%	66%	
NEW SEED	1000 ppm, 50% Emulsifier	5	8	3	4	7	15	7	10	95%	92%	97%	96%	95%	93%	85%	93%	90%	72%	
OLD SEED	Control 0 ppm, 0% Emulsifier																			
OLD SEED	0 ppm, 5% Emulsifier																			
OLD SEED	0 ppm, 50% Emulsifier																			
OLD SEED	500 ppm, 5% Emulsifier																			
OLD SEED	500 ppm, 50% Emulsifier																			
OLD SEED	1000 ppm, 5% Emulsifier																			
OLD SEED	1000 ppm, 50% Emulsifier																			

SIGNIFICANT DIFFERENCE @ 95%

NEW SEED

Anova Single Factor

Groups	Count	Sum	Average	Variance
Row 1	4	0.75	0.1875	0.00075633
Row 2	4	2.97	0.7425	0.00275633
Row 3	4	1.86	0.415	0.00438667
Row 4	4	1.83	0.4075	0.00308167
Row 5	4	1.95	0.4875	0.070625
Row 6	4	3.4	0.85	0.00173333
Row 7	4	3.61	0.9025	0.001425

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups		1.8890214	6	0.31483733	23.2487464	2.988E-08	3.8117491
Within Groups		0.254275	21	0.0121083			
Total		1.9432964	27				

FIG. 11a

% Mortality of New Weed Seeds Over Control Bindweed

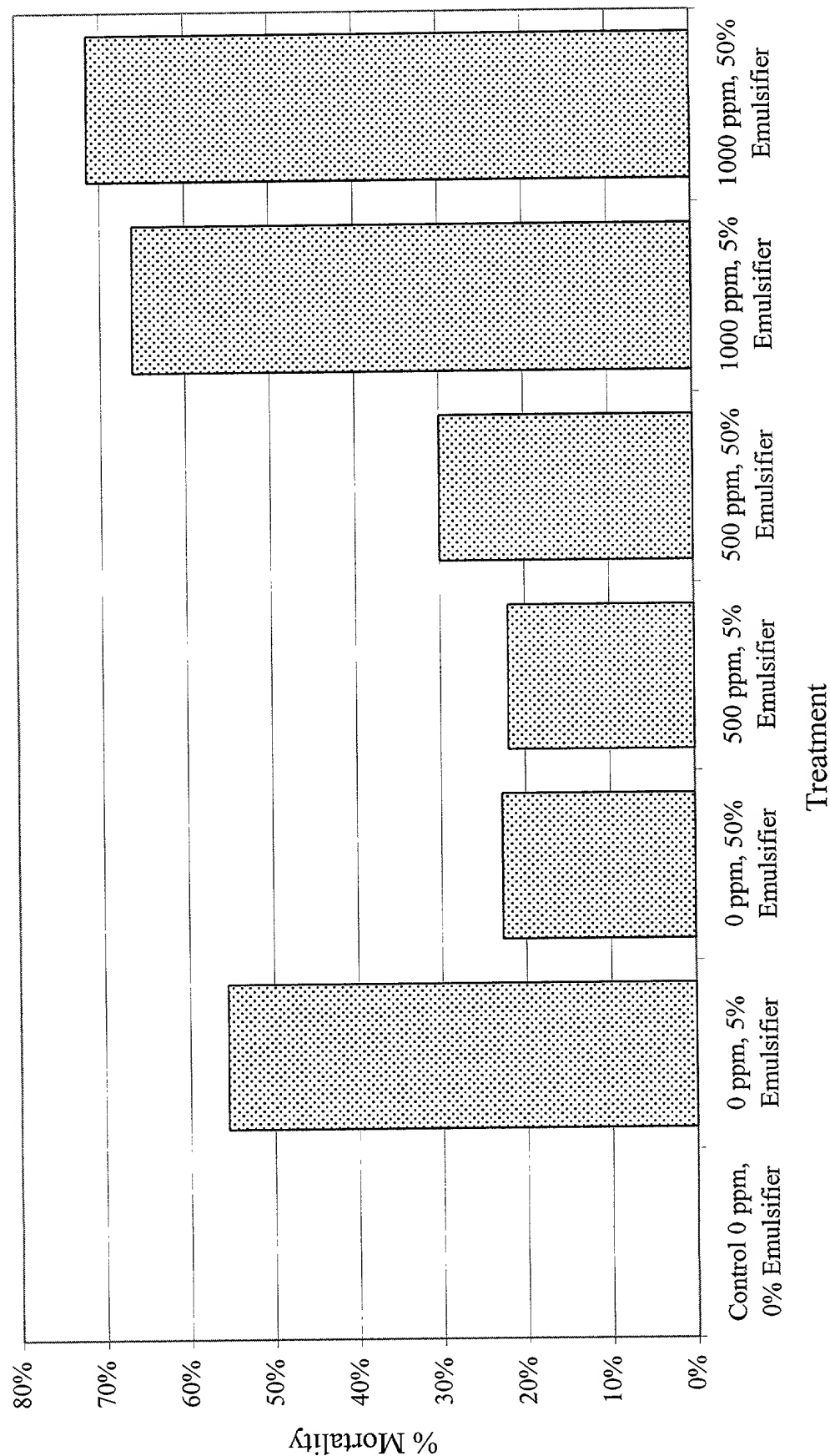


FIG. 11b